

REMARKS

Claims 1-41 were pending in the present application prior to the present Amendment and Response. Claims 11-22 and 29-41 have been withdrawn. New claims 42-64 are added. Therefore, after entry of the above amendments, claims 1-10, 23-28 and 42-64 will be pending in this application. Applicants believe that the present application is now in condition for allowance, for which prompt and favorable action is respectfully requested.

Information Disclosure Statement

The Examiner stated that the information disclosure statement filed on June 4, 2002 failed to comply with 37 CFR 1.98(a)(2). Applicants respectfully disagree with the Examiner. All documents cited as missing by the Examiner were previously submitted and properly identified in the Information Disclosure Statement in the earlier US Patent Application No. 08/495,382 which is relied upon for an earlier effective filing date under 35 U.S.C. 120, 37 C.F.R. 1.98. However, to further the prosecution of the present application, applicants submit herewith copies of the cited foreign patent document and non-patent literature (NPL) publications as Attachment A.

Drawings

The drawings have been amended in accordance with the Examiner's recommendations.

Figure 3 has been amended to show blocks 68 and 70. A replacement sheet for Figure 3 is attached.

Figure 6 has been amended to add the in-phase components and quadrature components in blocks 250, 251 and 252. A replacement sheet for Figure 6 is attached.

Figure 13 has been amended to include reference numbers 452-454 and to delete reference numbers 252-254. A replacement sheet for Figure 13 is attached.

Claim Objections

Claims 9 and 28 have been amended in accordance with the Examiner's recommendations. Claim 9 has been amended to correct a typographical error and now recites "user sectors" instead of "user vectors". Claim 28 has been amended to change "modulators" to "demodulators".

Claim Rejections under 35 U.S.C. 112

Claim 1 was rejected as having insufficient antecedent basis for the limitation "the delayed second PN-modulated signal." Claim 1 has been amended to provide sufficient antecedent basis. Dependent claims 2-6, 9 and 10 based their dependency directly or indirectly on claim 1 are likewise amended to overcome the rejection.

Claim 7 was rejected as having insufficient antecedent basis for the limitation "the delayed second signal." Claim 7 has been amended to recite "a delayed second PN-modulated signal and the first PN-modulated signal." Claim 7, as amended, now provides sufficient antecedent basis for the aforementioned limitation.

Claims 1 and 7 were rejected as being indefinite. Claims 1 and 7 have been accordingly amended. Support for coverage areas and sectors are found in Figures 1a, 1b and 1c. Support are also found on page 7, line 25 through page 8, line 24, and on page 10, line 32-page 12, line 20. Dependent claims 2-6, 9 and 10 based their dependency directly or indirectly on claim 1 are likewise amended to overcome the rejection.

Additionally, some claims were amended for clarity and/or to correct dependencies, antecedent basis and/or grammar.

Election/Restrictions

Applicants hereby elect claims 1-10 and 23-28 without traverse. Claims 11-22 and 29-41 are withdrawn from consideration.

New Claims

New claims 42-64 have been added. Applicants believe these claims add no new matter to the application and are fully supported by the original disclosure. Support for claims 42-64 are found on page 5, lines 15-32; on page 11, line 27 through page 12, line 20; on page 17, line 7 through page 18, line 21; on page 21, line 27 through page 22, line 30; and in Figures 6 and 10.

REQUEST FOR ALLOWANCE

In view of the foregoing, Applicants submit that all pending claims in the application are patentable. Accordingly, reconsideration and allowance of this application are earnestly solicited. Please charge any additional fees due or credit any overpayments to Account No. 170026. Applicants encourage the Examiner to telephone the Applicants' attorney should any issues remain.

Respectfully submitted,

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